

Release notes for ENDF/B Development g-050\_Sn\_117  
evaluation

**ENDF**  
**B-VII**.dev

December 2, 2016

- checkr Warnings:

1. A previous error halted parsing of the current section  
*MAT=5040, MF= 1, MT=451 (1): Parsing stopped*

```
ERROR(S) FOUND IN MAT=5040, MF= 1, MT=451
SECTION CANNOT BE CHECKED FROM SEQUENCE NUMBER      30 TO      33
```

- checkr Errors:

1. A variable is outside the allowed ENDF range  
*MAT=5040, MF= 1, MT=451 (0): Variable range*

```
ERROR(S) FOUND IN MAT=5040, MF= 1, MT=451
MOD =      1 OUT OF RANGE      0 -      0      RECORD NUMBER      30
```

2. Missing a section in directory so your directory is messed up. This error will break everything else  
*MAT=5040, MF= 3, MT= 5 (0): Directory (b)*

```
ERROR(S) FOUND IN MAT=5040, MF= 3, MT= 5
SECTION 3/ 5 NOT IN DIRECTORY      RECORD NUMBER      35
```

3. Missing a section in directory so your directory is messed up. This error will break everything else  
*MAT=5040, MF= 6, MT= 5 (0): Directory (b)*

```
ERROR(S) FOUND IN MAT=5040, MF= 6, MT= 5
SECTION 6/ 5 NOT IN DIRECTORY      RECORD NUMBER      64
```

- fudge-4.0 Errors:

1. Calculated and tabulated thresholds don't agree  
*reaction label 0: sumOfRemainingOutputChannels / Cross section: (Error # 0): Threshold mismatch*

```
WARNING: Calculated and tabulated thresholds disagree: 1.e-5 eV vs 3.7742e6 eV!
```

2. Found a negative probability  
*reaction label 0: sumOfRemainingOutputChannels / Product: gamma / Distribution: / uncorrelated - energy - XYs2d: (Error # 0): Negative prob.*

```
WARNING: Negative probabilities encountered. Incident energy: 1.4e7 eV, worst case: -1.41276e-13
WARNING: Negative probabilities encountered. Incident energy: 1.45e7 eV, worst case: -6.61812e-13
WARNING: Negative probabilities encountered. Incident energy: 1.5e7 eV, worst case: -1.06609e-12
WARNING: Negative probabilities encountered. Incident energy: 1.55e7 eV, worst case: -1.40324e-12
... plus 54 more instances of this message
```